Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Watkins Mill Lake (Williams Creek Lake)

Waterbody Segment at a Glance:

County:	Clay
Nearby Cities:	Excelsior Springs, Kearney
Area of impairment:	126 acres
Pollutant:	Fecal Coliform bacteria
Source:	Unknown
Added to 2002 303(d) List	
TMDL Priority Ranking:	Medium


State map showing location of watershed

Description of the Problem

Beneficial uses of Watkins Mill Lake:

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health associated with Fish Consumption
- Boating and Canoeing
- Whole Body Contact Recreation (swimming)

Use that is impaired

- Whole Body Contact Recreation (swimming)

Standards that apply

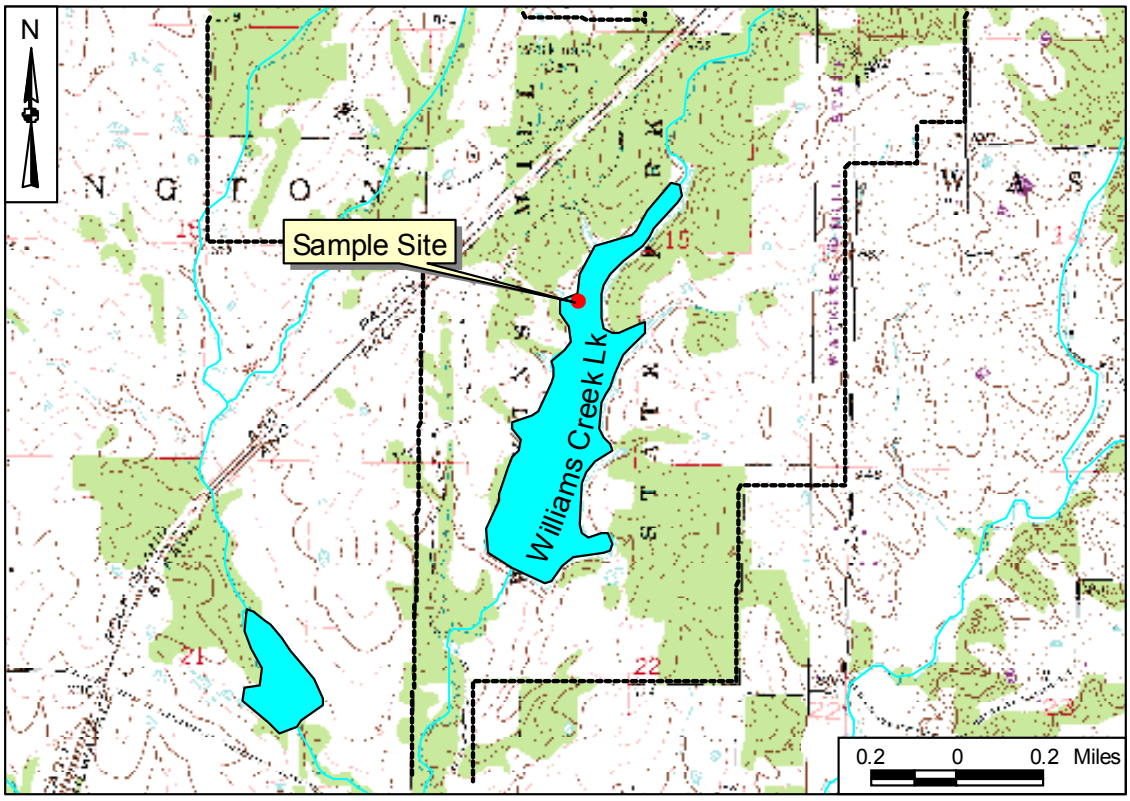
- State Water Quality Standards, 10 CSR20-7.031 (4)(C), require that fecal coliform bacteria levels in waters protected for swimming shall not exceed 200 bacterial colonies/100 milliliter (ml) of water during the recreational season (April 1 through October 31). Federal guidelines also suggest rating waters as impaired if more than 10 percent of all samples exceed 400 bacterial colonies/100 ml or if there are any closures of swimming areas due to high bacteria levels.

Background Information and Water Quality Data

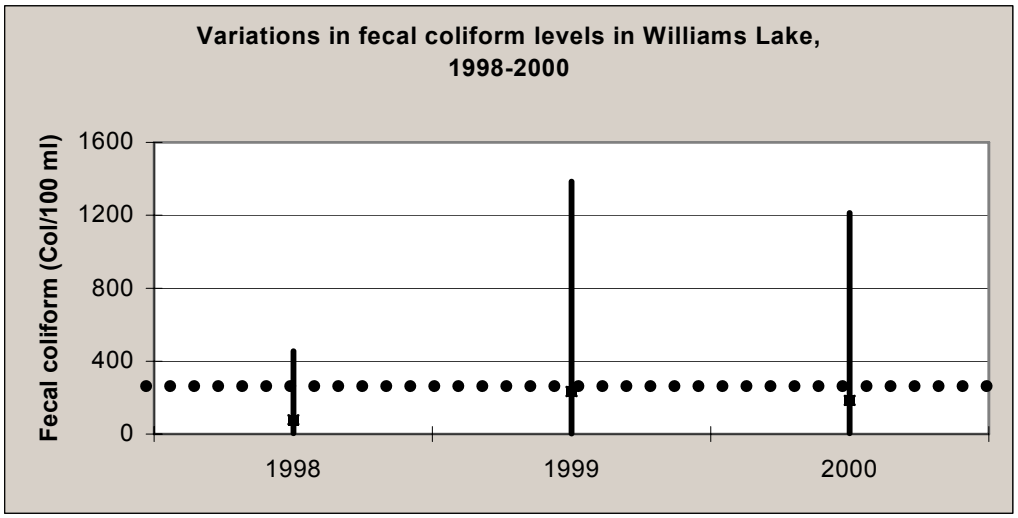
Watkins Mill Lake (also called Williams Creek Lake) is located in Watkins Mill State Park and is monitored weekly during the summer for fecal coliform bacteria. During 1999, the seasonal geometric mean fecal coliform level was 58 colonies/100 ml and there was one swimming area closure of a week's duration. In 2000, the geometric mean fecal coliform level was 52 colonies/100 ml and there was one swimming area closure of one week's duration. The source of the bacterial

contamination is unknown, but rural nonpoint stormwater runoff and use of the lake by waterfowl are suspected to be the major causes.

Map of Williams Creek Lake, Watkins Mill State Park, Clay County Showing Sampling Site



State Park boundary



Regulatory limit for fecal coliform

Source: Missouri Department of Natural Resources

For more information call or write:
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